

formation of two or several prolongations, often very long and even branched, returning subsequently to the round form which it had at the commencement. This movement, which is constantly observed in all these cells, although slow, is nevertheless pretty strong, and I have even several times observed cells which changed their position by the formation of processes, the whole presenting a considerable resemblance to the movement of an *Actinophrys* or *Amœba*. As in these animals, the contents of the cells also took part in the movement, and it was easy to see that these granulations passed sometimes into the processes, returning afterwards into the body of the cells, so that the change of form of the cells is accompanied by a movement of all the parts of which they consist, which may probably be intimately connected with the chemical and vital phænomena which are accomplished in these cells as well as in all the others.

Having observed these movements, it occurred to me that it was possible that many stellate cells exhibited similar movements, especially as something of the same kind has already been seen in the pigmentary cells of the Frog, and I set myself to examine the plasmatic cells or corpuscles of the conjunctive tissue. As these observations were made during the last days of my stay at Nice, I cannot give them the extent which I desired; however, I was fortunate enough to see that the plasmatic cells of the gelatinous conjunctive tissue of the head of the Torpedo, and the stellate cells of the gelatinous substance of the body of *Cassiopeia borbonica*, also exhibit movements similar to those which I have just described, and I do not doubt that it will be found that this phænomenon has a considerable extent, and even some physiological importance.—*Comptes Rendus*, Oct. 27, 1856, p. 794.

Description of a New Species of Actinia from the Devonshire Coast.

By E. W. H. HOLDSWORTH.

When contracted, the body forms a rounded button about $\frac{3}{4}$ of an inch in diameter, but in full expansion it is generally elongated to the extent of $2\frac{1}{2}$ inches, and terminates in a somewhat cup-shaped disk about $1\frac{1}{4}$ inch wide, and having its extended edges frequently thrown into irregular festoons. The tentacula, about 150 in number, are arranged in four or five series, as in most of the group to which this species belongs; the first row contains twenty-five arms, about half the length of the diameter of the disk, and moderately stout; the others gradually diminish in size as they proceed outwards, their numbers at the same time increasing; but the irregular manner in which they are placed renders it difficult to enumerate the contents, or to determine the limits of any one of the series. The disk is of a uniform olive-brown without any superficial markings,—the appearance of radiating lines, sometimes visible, being only the upper edges of the internal septa showing through the transparent skin; the mouth opens transversely, and displays a regular crenation of its pink lining membrane. The tentacula are of a reddish purple, and entirely destitute of rings or other marking; they present a remark-

able contrast to the body of the animal, which at its upper part is of a dark orange colour, gradually assuming a paler tint towards the base; numerous white sucking-pores are disposed over the upper surface, and afford points of attachment to surrounding substances, when required to conceal the body; they also give exit to the convoluted filaments, which are abundantly thrown out from them and the mouth, when the animal is irritated. Its natural haunts appear to be narrow crevices of rocks, into which it can retire when alarmed, and I was prevented obtaining many specimens by their having chosen such inaccessible hollows for their residence. Four or five examples were, however, procured at extreme low-water mark, from the very productive rocks outside Dartmouth harbour, and, excepting in size, presented no points of difference. I propose for this species the name of *vinosa*.—*Proc. Zool. Soc.*, June 10, 1856.

METEOROLOGICAL OBSERVATIONS FOR OCT. 1856.

Chiswick.—October 1. Exceedingly fine. 2. Cloudy. 3. Cloudy and fine: rain. 4. Rain: cloudy: rain. 5. Rain: cloudy: fine: lightning at night. 6. Foggy: rain: cloudy. 7. Hazy and drizzly: rain at night. 8. Heavy rain: densely overcast. 9. Overcast. 10. Hazy: fine. 11. Heavy rain: uniform haze: slight rain at night. 12. Foggy: uniform haze. 13. Dense fog: very fine: cloudy. 14. Foggy: overcast: fine. 15. Rain. 16. Overcast: showery. 17. Fine: overcast: hazy. 18. Very fine. 19. Dense fog: very fine. 20. Foggy: very fine. 21. Foggy: exceedingly fine. 22. Very dense fog: exceedingly fine. 23. Foggy: very fine. 24. Fine. 25. Foggy: heavy clouds: fine. 26. Hoar-frost: hazy: very fine. 27. Frosty: haze: fine. 28, 29. Very dense fog. 30. Hazy clouds: overcast: fine. 31. Uniform haze: rain: cloudy.

Mean temperature of the month	51°·28
Mean temperature of Oct. 1855	50·28
Mean temperature of Oct. for the last thirty years	50·00
Average amount of rain in Oct.	2·802 inches.

Boston.—Oct. 1, 2. Fine. 3. Fine: rain P.M. 4. Rain A.M. and P.M. 5. Cloudy. 6. Fine. 7, 8. Rain A.M. and P.M. 9—12. Cloudy: rain A.M. and P.M. 13. Cloudy. 14. Fine. 15. Fine: rain A.M. and P.M. 16. Cloudy: rain P.M. 17. Fine. 18. Cloudy. 19. Fine. 20, 21. Cloudy. 22, 23. Foggy. 24. Fine. 25—28. Cloudy. 29. Foggy. 30, 31. Cloudy: rain A.M.

Sandwich Manse, Orkney.—Oct. 1. Bright, fine A.M.: cloudy, fine P.M. 2. Bright, fine A.M.: drops P.M. 3. Hazy A.M.: drops P.M. 4. Hazy A.M.: drops, showers P.M. 5. Showers A.M.: clear, aurora P.M. 6. Clear, fine, hoar-frost A.M.: clear, aurora P.M. 7. Clear, fine, hoar-frost A.M.: cloudy P.M. 8. Bright A.M.: cloudy P.M. 9. Cloudy, fine A.M.: clear P.M. 10. Cloudy, fine A.M. and P.M. 11. Bright, hazy A.M.: cloudy P.M. 12. Clear, fine A.M. and P.M. 13. Bright, fine A.M.: cloudy P.M. 14. Damp A.M.: clear P.M. 15. Damp A.M.: cloudy P.M. 16. Showers A.M.: drizzle P.M. 17. Cloudy A.M.: rain, clear P.M. 18. Bright A.M.: drizzle P.M. 19. Bright, fine A.M.: drizzle P.M. 20. Bright, fine A.M.: clear, aurora P.M. 21. Fog A.M.: cloudy P.M. 22. Cloudy, fine A.M.: showers P.M. 23. Clear, fine A.M.: clear, aurora P.M. 24. Clear, frost, fine A.M.: clear, aurora P.M. 25. Damp A.M.: rain P.M. 26. Drizzle A.M.: damp P.M. 27. Drizzle A.M. and P.M. 28. Damp A.M.: cloudy P.M. 29. Hazy, fine A.M.: clear P.M. 30. Cloudy, fine A.M.: cloudy P.M. 31. Cloudy, fine A.M.: clear, fine P.M.

Mean temperature of Oct. for previous twenty-nine years ...	47°·57
Mean temperature of this month	48·84
Mean temperature of Oct. 1855	45·72
Average quantity of rain in Oct. for previous sixteen years ...	5·09 inches.